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IN THE CLAIMS

1. (Currently Amended) A medical system comprising:

~~an IMD~~ a connector header including a connector bore, the connector bore having a first inner surface;

a first elongated insulated conductor and a plurality of elongated insulated conductors;

a lead connector including ~~a circumferential array~~ plurality of connector pads and terminated proximally by a connector pin, ~~the connector pin adapted for electrical engagement to~~ electrically engage the lead connector within the connector bore;

a first lead electrode coupled to the connector pin via the first insulated conductor;

~~an array~~ a plurality of electrodes, each electrode of the ~~array~~ plurality of electrodes coupled to a corresponding connector pad of the ~~array~~ plurality of connector pads via a one of the plurality of elongated insulated conductors; and

an adaptor, comprising:

a proximal end and a distal end;

~~an internal~~ a second inner surface, the second inner surface forming a lumen extending from the a proximal end to the a distal end, the lumen adapted to engage to receive the lead connector, and including an electrical contact zone formed therein and positioned for coupling with a one of the array

a flange extending outward from the second inner surface and within the lumen to selectively engage any one of the plurality of connector pads when the connector is engaged within the lumen, and the adapter is rotated about an axis extending from the proximal end to the distal end of the adapter; and

an external surface adapted for engagement within to engage the first inner surface of the connector bore of the IMD and including a conductive surface electrically coupled to the electrical contact zone and adapted for electrical connection flange to electrically engage the flange within the connector bore;

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wherein, the selected one of the ~~array~~ plurality of connector pads corresponds to a selected electrode of the ~~array~~ plurality of lead electrodes; and
when the lead connector is engaged within the lumen of the adaptor, the connector pin ~~protrudes~~ extends outward from the proximal end of the adaptor.

2. (Original) The medical system of claim 1, wherein the external surface the adaptor conforms to an industry standard.
3. (Original) The medical system of claim 1, wherein, when the lead connector is engaged within the lumen of the adaptor, the external surface of the adaptor and the protruding connector pin of the connector conform to an industry standard.
4. (Original) The medical system of claim 1, wherein the external surface of the adaptor further includes a set of sealing rings positioned proximal to the conductive surface.
5. (Currently Amended) The medical system of claim 1, wherein the lead connector further includes a ~~set~~ plurality of sealing rings positioned distal to the ~~array~~ plurality of connector pads.
6. (Currently Amended) The medical system of claim 1, wherein the lead connector further includes a mechanical stop ~~interfacing with~~ to engage the distal end of the adaptor when the lead connector is fully inserted within the lumen of the adaptor.
- Claim 7. (Canceled)
8. (Currently Amended) The medical system of ~~claim 7~~ claim 1, wherein the ~~inward protruding key~~ flange is a resilient force beam.

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9. (Currently Amended) The medical system of ~~claim 7~~ claim 1, wherein each connector pad of the ~~array~~ plurality of connector pads includes a surface depression adapted to mate with the ~~inward protruding key~~ flange.

10. (Currently Amended) The medical system of claim 1, wherein each connector pad of the ~~array~~ plurality of connector pads includes a resilient protrusion adapted to mate with the ~~electrical contact zone~~ flange.

11. (Currently Amended) The medical system of claim 10, wherein the ~~electrical contact zone~~ flange includes an ~~inward protruding key~~ having a surface depression adapted to mate with to receive the resilient protrusion of each ~~connector pad of the array~~ of any one of the plurality of connector pads.

12. (Currently Amended) A method for coupling a selected electrode of a lead from ~~an array~~ a plurality of electrodes to ~~an IMD~~ an implantable medical device, comprising:

inserting a connector of a lead within an adaptor, and
rotating the adaptor about an axis extending through the adaptor and
aligning a ~~contact zone~~ flange formed within a lumen of ~~an~~ the adaptor with a connector pad selected from a ~~circumferential array~~ plurality of connector pads positioned along the connector, the selected connector pad corresponding to the selected electrode; ~~and~~

inserting the array of connector pads into the lumen of the adaptor to
electrically couple the selected pad with the contact zone.

13. (Currently Amended) The method of claim 12, further comprising Inserting the ~~connector pad array~~ connector of the lead, inserted within the lumen of the adaptor, into a connector bore of ~~an IMD~~ the implantable medical device to electrically couple the selected pad and the implantable medical device within the connector bore via the flange.